

FIG.1

$$t_F = A_F \times t_A$$

LINEAR ACCELERATION

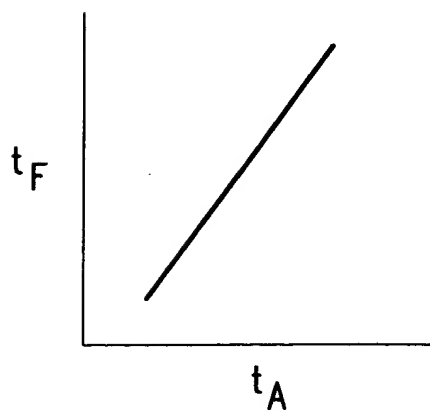
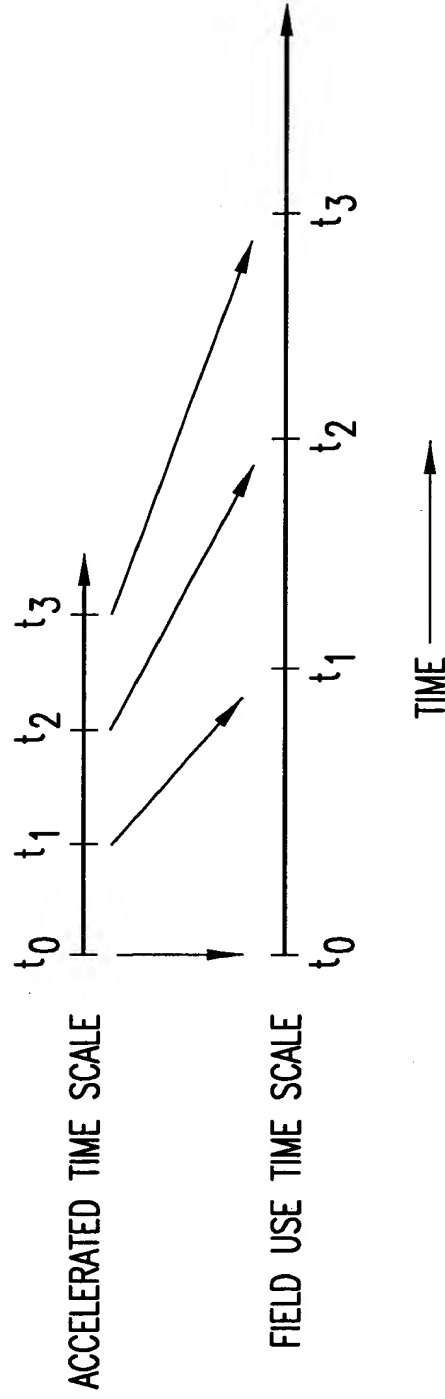
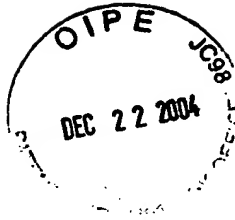


FIG.2



CORRELATION BETWEEN ACCELERATED AND FIELD USE TIME SCALES

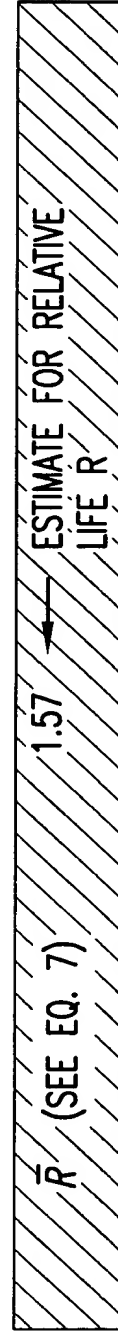
FIG.3



UNIT A

	CSS	HSS	RT	Vib	CE
HALT 1 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	120	81	14	53	55.5
HALT 2 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	91.5	90.5	63	83.5	87
\hat{R}_i (SEE EQ. 4)	0.76	1.12	4.50	1.58	1.57
\hat{R}_i^* (SEE EQ. 5)	-0.27	0.11	1.50	0.45	0.45

\bar{R}^* (SEE EQ. 6) 0.45

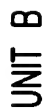


BOM MTBF 298462
MTBF FOR REDESIGNED UNIT 468585
(SEE EQ. 12)

90% CONFIDENCE LIMITS FOR R
(SEE EQ. 11)

LOWER LIMIT 0.41
UPPER LIMIT 5.93

FIG.4



	CSS	HSS	RT	Vib	CE
HALT 1 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	73.5	83	89	50	11
HALT 2 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	121.5	83	13.5	110	13.5
\hat{R}_i (SEE EQ. 4)	1.65	1.00	0.15	2.20	1.23
\hat{R}_i^* (SEE EQ. 5)	0.50	0.00	-1.89	0.79	0.20

$$\bar{R}^* \quad (\text{SEE EQ. 6}) \quad -0.08$$

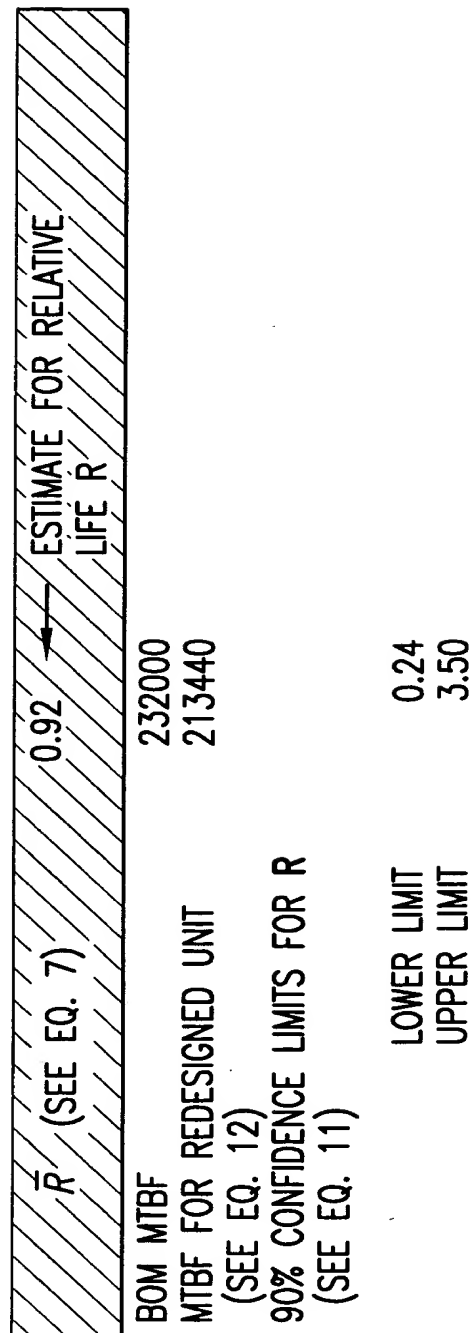
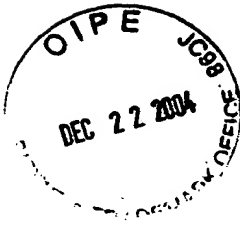


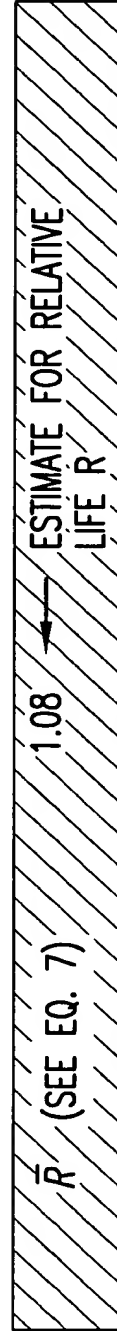
FIG. 5



UNIT C

	CSS	HSS	RT	Vib	CE
HALT 1 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	89	72	33	73	49
HALT 2 FIRST FAILURE (TIME TO FAILURE IN MINUTES)	112	78	100	63.5	19.83
\hat{R}_i (SEE EQ. 4)	1.26	1.08	3.03	0.87	0.40
\hat{R}_i^* (SEE EQ. 5)	0.23	0.08	1.11	-0.14	-0.90

\bar{R}^* (SEE EQ. 6) 0.07



BOM MTBF 363300
MTBF FOR REDESIGNED UNIT 392364
(SEE EQ. 12)

90% CONFIDENCE LIMITS FOR R
(SEE EQ. 11)

LOWER LIMIT 0.29
UPPER LIMIT 4.08

FIG. 6